Nii	umb r: 09/909,474B	Ch. Processing Dat : 4802 Edited by:
	Changed a file from non-ASCII to ASCII	Verified by: (STIC staff
C	Changed the margins in cases where the sequence text was "wrapped"	down to the next line.
E	Edited a format error in the Current Application Data section, specifically	
	Edited the Current Application Data section with the actual current numb applicant was the prior application data; or other	per. The number inputted by the
A	Added the mandatory heading and subheadings for "Current Application	Data".
=	Edited the "Number of Sequences" field. The applicant spelled out a nu	mber instead of using an integer.
-	Changed the spelling of a mandatory field (the headings or subheadings	s), specifically:
>	Corrected the SEQ ID NO when obviously incorrect. The sequence num	nbers that were edited were:
n	nserted or corrected a nucleic number at the end of a nucleic line. SEC	ID NO's edited:
) ap	Corrected subheading placement. All responses must be on the same lipplicant placed a response below the subheading, this was moved to its	ne as each subheading. If the s appropriate place.
ir	Inserted colons after headings/subheadings. Headings edited included:	
D	Deleted extra, invalid, headings used by an applicant, specifically:	
	Deleted: non-ASCII "garbage" at the beginning/end of files; sec	cretary initials/filename at end of file;
lı	Inserted mandatory headings, specifically:	
C	Corrected an obvious error in the response, specifically:	
Ε	Edited identifiers where upper case is used but lower case is required, o	or vice versa.
C	Corrected an error in the Number of Sequences field, specifically:	
Α	A "Hard Page Break" code was inserted by the applicant. All occurrence	es had to be deleted.
)e u	eleted ending stop codon in amino acid sequences and adjusted the "(ue to a Patentin bug). Sequences corrected:	(A)Length:" field accordingly (error
	Other:	
	•	
_		

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT s nd a copy of this form.

3/1/95



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/909,474B

DATE: 04/08/2002 P.6
TIME: 12:59:25

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\04082002\1909474B.raw

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33																g Āla	
34														1			
36	acc	cct	ctg	gct	gct	cct	gcg	ggt	tcc	ctg	tcc	agg	aag	aag	cgg	ttg	105
37	Thr	${\tt Pro}$	Leu	Ala	Ala	Pro	Ala	Gly	Ser	Leu	Ser	Arg	Lys	Lys	Arg	Leu	
38		5					10					15					
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41	Glu	Leu	Asp	Asp	Asn	Leu	Asp	Thr	Glu	Arg	Pro	Val	Gln	Lys	Arg	Ala	
42	20					25					30					35	
44	cga	agt	ggg	ccc	cag	ccc	aga	ctg	ccc	ccc	tgc	ctg	ttg	ccc	ctg	agc	201
45	Arg	Ser	Gly	${\tt Pro}$	Gln	Pro	Arg	Leu	Pro	Pro	Cys	Leu	Leu	Pro	Leu	Ser	
46					40					45					50		
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	Leu																
54			70					75				_	80	_		_	
56	cgg	gcc	ctg	cac	tgc	cct	aca	ggc	act	gag	tat	acc	tgc	aag	gtg	tac	345
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58		85			_		90	_			-	95	_	-		-	
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	Pro																
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65	ccg	cac	aag	cat	gtg	gct	cgg	ccc	act	gaq	gtc	ctq	gct	gat	acc		441
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RAW SEQUENCE LISTING DATE: 04/08/2002 PATENT APPLICATION: US/09/909,474B TIME: 12:59:25

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Output Set: N:\CRF3\04082002\1909474B.raw

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70	Tou	Tou	Trr	712	Dho	Dho	mb~	200	mb	Uat	999	gac	acg	Cac	age	etg -	489
71	пец	пец	TYT	Ala	FIIE	PHE	1111	AIG		HIS	GIY	ASP	мет		ser	Leu	
				135					140					145			
73	grg	cga	agc	cgc	cac	cgt	atc	cct	gag	cct	gag	gct	gcc	gtg	ctc	ttc	537
	Val	Arg		Arg	His	Arg	Ile	Pro	Glu	Pro	Glu	Ala	Ala	Val	Leu	Phe	
75			150					155					160				
77	cgc	cag	atg	gcc	acc	gcc	ctg	gcg	cac	tgt	cac	cag	cac	ggt	ctg	gtc	585
78	Arg	Gln	Met	Ala	Thr	Ala	Leu	Ala	His	Cys	His	Gln	His	Gly	Leu	Val	
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		aan	cta	gtg	ata		220	at a	~~~	~~~		+	~+~				601
86	Luc	Tue	Tou	y Ly	Tou	Clu	Aac Aan	Tou	gay	yac	200	cyc	gug	CLG	act	999	681
07	цуз	цуз	Leu	Val		GIU	ASII	Leu	GIU		ser	Cys	val	Leu		GIĀ	
87					200					205					210		
89	cca	gat	gat	tcc	ctg	tgg	gac	aag	cac	gcg	tgc	cca	gcc	tac	gtg	gga	729
	Pro	Asp	Asp	Ser	Leu	\mathtt{Trp}	Asp	Lys	His	Ala	Cys	Pro	Ala	Tyr	Val	Gly	
91				215					220					225			
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94	Pro	Glu	Ile	Leu	Ser	Ser	Arg	Ala	Ser	Tyr	Ser	Gly	Lys	Ala	Ala	Asp	
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98	Val	Trp	Ser	Leu	Gly	Val	Ālā	Leu	Phe	Thr	Met.	Leu	Ala	Glv	His	Tvr	0 _0
99		245			-		250		_			255		1		-1-	
101	. ccc	tto	caq	gac	t.ca	σασ	cct	ato	cto	cto	tto		aad	ato	· cac	cgc	873
102	Pro	Phe	Gln	Asp	Ser	Glu	Pro	Val	T.e.ii	T.e.11	Dho	. Glv	Tite	Tle	Ara	Arg	0/3
	260					265		, , ,		. 100	270	_	Lys		. Aly	275	
			tac		tta			aaa	ata	+ 00			~~~	000		ctg	001
106	Glv	Δla	Tur	· 7.1 a	T.OII	Dro	. η C α	611	TOU	Cor	1 900	חשם	. 900	200	. cyt	Leu	921
107		AIG	- y -	ліа	280		Ала	. Сту	цеи	. ser 285		PIC	н Ата	Arg	_		
		~~~	+~~				~								290		
110	. y	200	desa	Tan	CLL	. cg L	egg	gag	cca	get	. gaa	. cgg	CTC	aca	gcc	aca	969
		AIG	Cys		Leu	Arg	Arg	GIU			GIU	Arg	Leu			Thr	
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114	GLY	He			His	Pro	Trp	Leu	Arg	Gln	Asp	Pro	Met	Pro	Leu	Ala	
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118	Pro	Thr	Arg	Ser	His	Leu	Trp	Glu	Ala	Ala	Gln	Val	Val	Pro	Asp	Gly	
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122	Leu	Gly	Leu	Asp	Ğlu	Āla	Ara	Ğlu	Ğlü	Glu	Glv	Asn	Ara	Glu	Val	Val	
123	340	4				345	5			0_0	350		9	Olu	141	355	
		tat	aac	tag	gacc		ctac	taca	CG C	tasa		n = -	02 <i>0</i> +	~~~+		3,7,5	1160
126	Leu	Tur	29°	Lug	gucc	400	CLac	cuca	cy c	ccay	CLYC	c aa	cayc	yyat			1162
					~ a+ ~	<b>a</b> n -	~~-+	+~+	_ L		<b>.</b>						
101	cya a++	9666	999	gyla	9000	ca d	gucc	LULC	e eg	CCTC	Lyaa	ctg	agcc	aaa	cctt	cagtgc	1222
132 T2T		ccag	aag	yyag.	aaag	yc a	yaag	cctg	t gt	ggag	rgtg	ctg	tgta	cac	atct	gctttg	1282
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RAW SEQUENCE LISTING DATE: 04/08/2002 PATENT APPLICATION: US/09/909,474B TIME: 12:59:25

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Output Set: N:\CRF3\04082002\I909474B.raw

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														1582			
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																	1822
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	Lys	Arg	Leu		Leu	Asp	Asp	Asn		Asp	Thr	Glu	Arg		Val	GIn	
172	_	_		20	_	~ 1	_	<b>a</b> 1	25	_		<b>-</b>	<b>-</b>	30	<b>.</b>	T	
	Lys	Arg		Arg	Ser	GIĀ	Pro		Pro	Arg	Leu	Pro		Cys	Leu	Leu	
176	_	_	35	_	_	_,		40			. 1 .	m1	45	**- 1		m1	
	Pro		Ser	Pro	Pro	Tnr		PLO	Asp	Arg	Ата		Ата	val	Ата	THE	
180		50		<b>-</b>	a1	<b>D</b>	55	**- 1	T	T	a1	60	a1	<b>01</b>	<b>01</b>	G1	
	Ala	ser	Arg	Leu	GIA		Tyr	vaı	ьeu	Leu		Pro	GIU	GIU	СТУ		
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	Arg	АТа	туг	Arg	85	ьeu	HIS	Cys	PIO	90	СТУ	THE	GIU	ıyı	95	Cys	
188	Lys	17.01	Ш	Dmo		Cln	Clu	ת 1 ת	T 011		17 n 1	T 011	Clu	Dro		ת 1 ת	
193	гуѕ	Val	тут	100	vaı	GIII	GIU	нта	105	Ата	vaı	ьeu	GIU	110	TYL	АТА	
	Arg	T 011	Dro		uic	Tare	uic	17 a 1		λrα	Dro	Thr	G1n		Τ.Δ.1	λla	
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202	GLY	130	0111	ыси	пси	- 1 -	135	1 110	1 110	1111	**** 9	140	1115	07	1105	1100	
	His		T.e.11	Va 1	Ara	Ser		His	Arα	Tle	Pro		Pro	Glu	Δla	Ala	
	145	DCI	шси	, 41	*** 9	150	**** 9	*****	9		155	014		014		160	
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DATE: 04/08/2002

PATENT APPLICATION: US/09/909,474B TIME: 12:59:25 Input Set : A:\PTO.DC.txt Output Set: N:\CRF3\04082002\I909474B.raw 233 Gly His Tyr Pro Phe Gln Asp Ser Glu Pro Val Leu Leu Phe Gly Lys 265 260 237 Ile Arg Arg Gly Ala Tyr Ala Leu Pro Ala Gly Leu Ser Ala Pro Ala 280 241 Arg Cys Leu Val Arg Cys Leu Leu Arg Arg Glu Pro Ala Glu Arg Leu 290 295 300 245 Thr Ala Thr Gly Ile Leu Leu His Pro Trp Leu Arg Gln Asp Pro Met 246 305 310 315 249 Pro Leu Ala Pro Thr Arg Ser His Leu Trp Glu Ala Ala Gln Val Val 330 325 253 Pro Asp Gly Leu Gly Leu Asp Glu Ala Arg Glu Glu Gly Asp Arg 340 257 Glu Val Val Leu Tyr Gly 258 355 261 <210> SEQ ID NO: 3 262 <211> LENGTH: 21 263 <212> TYPE: DNA 264 <213> ORGANISM: Artificial Sequence 266 <220> FEATURE: 267 <223> OTHER INFORMATION: PCR Primer 269 <400> SEQUENCE: 3 21 270 tggtgctgga gaacctggag g 273 <210> SEQ ID NO: 4 274 <211> LENGTH: 21 275 <212> TYPE: DNA 276 <213> ORGANISM: Artificial Sequence 278 <220> FEATURE: 279 <223> OTHER INFORMATION: PCR Primer W--> 280 <400> SEQUENCE: 4 21 281 cgagtcctgg aaggggtagt g 284 <210> SEQ ID NO: 5 285 <211> LENGTH: 11 286 <212> TYPE: PRT 287 <213> ORGANISM: Artificial Sequence 289 <220> FEATURE: 290 <223> OTHER INFORMATION: HIV TAT peptide 292 <400> SEQUENCE: 5 294 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg 295 1 297 <210> SEQ ID NO: 6 298 <211> LENGTH: 20 299 <212> TYPE: DNA 300 <213> ORGANISM: Artificial Sequence 302 <220> FEATURE: 303 <223> OTHER INFORMATION: PCR Primer 305 <400> SEQUENCE: 6 20 306 cggggcgaga tgcgagccac 309 <210> SEQ ID NO: 7

RAW SEQUENCE LISTING

310 <211> LENGTH: 20



RAW SEQUENCE LISTING DATE: 04/08/2002 PATENT APPLICATION: US/09/909,474B TIME: 12:59:25

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\04082002\1909474B.raw

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337 Pro Leu Ser Pro Pro Thr Ala Pro Asp Arg Ala Thr Ala Val Ala Thr
340 Ala Ser Arg Leu Gly Pro Tyr Val Leu Leu Glu Pro Glu Glu Gly Gly
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343 Arg Ala Tyr Gln Ala Leu His Cys Pro Thr Gly Thr Glu Tyr Thr Cys
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346 Lys Val Tyr Pro Val Gln Glu Ala Pro Ala Val Leu Glu Pro Tyr Ala
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352 Gly Thr Gln Leu Leu Tyr Ala Phe Phe Thr Arg Thr His Gly Asp Met
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355 His Ser Leu Val Arg Ser Arg His Arg Ile Pro Glu Pro Glu Ala Ala
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358 Val Leu Phe Arg Gln Met Ala Thr Ala Leu Ala His Cys His Gln His
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361 Gly Leu Val Leu Arg Asp Leu Lys Leu Cys Arg Phe Val Phe Ala Asp
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370 Tyr Val Gly Pro Glu Ile Leu Ser Ser Arg Ala Ser Tyr Ser Gly Lys
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373 Ala Ala Asp Val Trp Ser Leu Gly Val Ala Leu Phe Thr Met Leu Ala
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376 Gly His Tyr Pro Phe Gln Asp Ser Glu Pro Val Leu Leu Phe Gly Lys
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/909,474B

DATE: 04/08/2002 TIME: 12:59:26

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\04082002\I909474B.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the  $\langle 220 \rangle$  to  $\langle 223 \rangle$  fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 136,138,141,142,143,152



## VERIFICATION SUMMARY

DATE: 04/08/2002

PATENT APPLICATION: US/09/909,474B

TIME: 12:59:26

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\04082002\I909474B.raw

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OIPE

## Does Not Comply Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/909,474B

DATE: 04/04/2002 TIME: 16:59:39

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Output Set: N:\CRF3\04042002\I909474B.raw

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- 6 Bowers, Alex
- 8 <120> TITLE OF INVENTION: Novel Serine Threonine Kinase Member, h2520-59
- 10 <130> FILE REFERENCE: 01017/36524A
- 12 <140> CURRENT APPLICATION NUMBER: US/09/909,474B
- 13 <141> CURRENT FILING DATE: 2001-07-19
- 15 <150> PRIOR APPLICATION NUMBER: US 60/219,204
- 16 <151> PRIOR FILING DATE: 2000-07-19
- 18 <160> NUMBER OF SEQ ID NOS: 15
- 20 <170> SOFTWARE: PatentIn version 3.0

## ERRORED SEQUENCES

- 644 <210> SEQ ID NO: 15
- 645 <211> LENGTH: 25
- 646 <212> TYPE: PRT
- 647 <213> ORGANISM: Homo sapiens
- 649 <400> SEQUENCE: 15
- 651 Arg Ser His Leu Trp Glu Ala Ala Gln Val Val Pro Asp Gly Leu Gly
- 652 1 5 10
- 654 Leu Asp Glu Ala Arg Glu Glu Cys
- 655 _ 20 25

E--> 658 (-4-) - delete

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/909,474B

DATE: 04/04/2002 TIME: 16:59:40

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L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

L:658 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:15